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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/727,470	12/04/2003	Noh Yeal Kwak	29936/39863 6255		
4743	7590 07/27/2004		EXAM	EXAMINER	
MARSHALL, GERSTEIN & BORUN LLP 6300 SEARS TOWER			YEVSIKOV, VICTOR V		
233 S. WACKER DRIVE			ART UNIT	PAPER NUMBER	
CHICAGO, IL 60606			2825		
			DATE MAIL ED: 07/27/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	on No.	Applicant(s)			
		10/727,47	0	KWAK, NOH YEAL			
	Office Action Summary	Examiner		Art Unit	_		
		Victor V Y		2825	_		
Period fo	The MAILING DATE of this communicator Reply	tion appears on the	cover sheet with the c	orrespondence address			
A SH THE - Exte after - If the - If NC - Faill Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA nsions of time may be available under the provisions of 3: SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) de period for reply is specified above, the maximum statutoure to reply within the set or extended period for reply will, reply received by the Office later than three months after led patent term adjustment. See 37 CFR 1.704(b).	ATION. 7 CFR 1.136(a). In no ever cation. ays, a reply within the statu rry period will apply and wi by statute, cause the appl	nt, however, may a reply be tim tory minimum of thirty (30) days I expire SIX (6) MONTHS from ication to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status	·						
1)⊠	Responsive to communication(s) filed of	on <i>04 December</i> 20	003.				
·	☐ This action is FINAL . 2b)☑ This action is non-final.						
3)□							
Disposit	ion of Claims						
5)□ 6)⊠ 7)⊠	Claim(s) <u>1-4</u> is/are pending in the application 4a) Of the above claim(s) is/are vectors are allowed. Claim(s) <u>1-3</u> is/are rejected. Claim(s) <u>4</u> is/are objected to. Claim(s) are subject to restriction	withdrawn from coi					
Applicat	ion Papers						
10)⊠	The specification is objected to by the E The drawing(s) filed on <u>04 December 20</u> Applicant may not request that any objectio Replacement drawing sheet(s) including the The oath or declaration is objected to by	003 is/are: a)⊠ ac n to the drawing(s) b e correction is require	e held in abeyance. See ed if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority (under 35 U.S.C. § 119						
12)⊠ a)	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International	cuments have bee cuments have bee the priority docume Bureau (PCT Rule	n received. n received in Applicati ents have been receive e 17.2(a)).	on No ed in this National Stage			
2) Notic	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-		4) Interview Summary Paper No(s)/Mail Da	nte			
	mation Disclosure Statement(s) (PTO-1449 or PT0 r No(s)/Mail Date	D/SB/08)	5) Notice of Informal P 6) Other:	atent Application (PTO-152)			

Application/Control Number: 10/727,470

Art Unit: 2825

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 rejected under 35 U.S.C. 102(b) as being anticipated by Lin et al. (U.S. 6,087,222).

Lin teaches the following:

- 1. ion implantation to control threshold with an energy of 15 KeV to about 45 KeV and a dose of 1E12 ion/cm² to 7E13 ion/cm² with a BF₂ p-type dopant;
 - 2. a spike anneal (col. 3, lines 50-55);
 - 3. device isolation film (element 16);
- 4. a tunnel oxide 22, a floating gate FG, a dielectric film 30 and a control gate CG;
 - 5. performing ion implantation for S/D formation (fig. 1G).

Reference: abstract; figs.1E-1L, 2E-2L, 4 and 5 with corresponding text; col. 3, lines 46-55.

Claim Objections

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Claim 4 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Victor Yevsikov whose telephone number is (571) 272-1910. The examiner can normally be reached on Monday –Thursdays 8:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, examiner's supervisor, Matthew S. Smith, can be reached on (571) 272-1907. The fax phone numbers for the organization where this application or processing is assigned is (703) 873-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published application may be obtained from either Private PAIR or Public PAIR. Status information for unpublished application is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

V. Yuel Kor

July 19, 2004

Victor Yevsikov Examiner Art Unit 2825

MATTHEW SMITH
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800